

2019-20

QUALITY CONTROL TEST REPORTS

Client:Executive Engineer,Project Division, RR Nagara Zone, BBMP, Bangalore.

Agency: Sri. Purushotham Raju N,Contractor, Bangalore.

Name of Work :Construction of Market Building At JP Park in Ward No 17, BBMP, Bangalore.

PROJECT MANAGEMENT CONSULTANTS



M/S. CIVIL QUALITY CONSULTANTS & ENGINEERS

(Buildings Geo-Tech & Road Materials Testing Laboratory)
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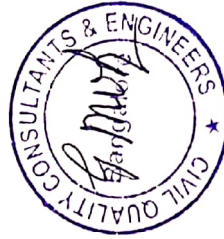
QC ABSTRACT

Name of Work: Construction of Market Building At JP Park in Ward No 17, BBMP, Bangalore.

Sl. No.	Item	Quantity As Per BOQ	Required No's of testes	Actual No's of testes	Testes
1	1:3:6	-	1	1	Cement
2	M30 (3rd Floor)	189.00Cum	7	7	Sand, Aggregates Cement Cube Compressive Strength
3	M30 (Terrace Floor)	13.30 Cum	3	3	Cement Cube Compressive Strength
4	Steel	25.83 Tonnes	1	1	-
5	Blocks	1776.82 Sqm	1	1	Compressive Strength
6	Blocks	121.12 Sqm	1	1	Compressive Strength
7	Verified Tiles	736.50Sqm	1	1	Compressive Strength

Cubes

0-5 Cum 1Set
6-15 Cum 2Set
16-30 Cum 3Set
31-50 Cum 4Set
Add 1set for extra 50Cum



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Job No.: CQCE/BBMP/PRN/W.No.17/2019-20

Date: 06.01.2020

TEST REPORT

CLIENT	:	Executive Engineer, Project Division, RR Nagara Zone, BBMP, Bangalore.
AGENCY	:	Sri. Purushotham Raju N, Contractor, Bangalore.
NAME OF THE WORK	:	Construction of Market Building At JP Park in Ward No 17, BBMP, Bangalore.
SAMPLE ID	:	Cement (Zuari OPC 53 Grade)
DATE OF MANUFACTURE		December-2019
DATE OF TESTING		04.01.2020 to 06.01.2020
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part -5)	125 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	445 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	28.50 %	-

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For CIVIL QUALITY CONSULTANTS & ENGINEERS

B. K. G. G. G.

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G. M. M.

Authorised Signatory

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Job No.:

CQCE/BBMP/PRN/W.No.17/2019-20

Date : 06.01.2020

TEST REPORT ON COARSE AGGREGATES

IS 383-1970 (RA- 2002)

Client

: Executive Engineer, Project Division, RR Nagara Zone, BBMP, Bangalore.

Agency

: Sri. Purushotham Raju N, Contractor, Bangalore.

Name of Work

: Construction of Market Building At JP Park in Ward No 17, BBMP, Bangalore.

Date of Testing

: 06.01.2020

Material

: 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	195	1.30	1.30	98.70	95-100
20	8236	54.91	56.21	43.79	30-70
10	3217	21.45	77.65	22.35	10-35
4.75	2895	19.30	96.95	3.05	0-5

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For CIVIL QUALITY CONSULTANTS & ENGINEERS

K.R. Ramesh Kumar

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G. Mohy
Authorised Signatory

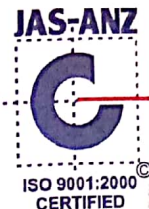


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Job No.:

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Date : 06.01.2020

TEST REPORT ON FINE AGGREGATES (SAND)

IS 383-1970 (RA- 2002)

Client : Executive Engineer, Project Division, RR Nagara Zone, BBMP, Bangalore.
Agency : Sri. Purushotham Raju N, Contractor, Bangalore.
Name of Work : Construction of Market Building At JP Park in Ward No 17, BBMP, Bangalore.
Date of Testing : 06.01.2020
Material : Sand

Total Wt. of Aggregates in gms 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	85	8.50	8.50	91.5	90-100
2.36	148	14.80	23.30	76.7	75-100
1.18	192	19.20	42.50	57.5	55-90
600 Micron	164	16.40	58.90	41.1	35-59
300 Micron	267	26.70	85.60	14.4	8-30
150 Micron	91	9.10	94.70	5.3	0-10

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B. K. Srinivas

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Date : 06.01.2020

TEST REPORT ON COARSE AGGREGATES

IS 383-1970 (RA- 2002)

Client

: Executive Engineer, Project Division, RR Nagara Zone, BBMP, Bangalore.

Agency

: Sri. Purushotham Raju N, Contractor, Bangalore.

Name of Work

: Construction of Market Building At JP Park in Ward No 17, BBMP, Bangalore.

Date of Testing

: 06.01.2020

Material

: 20mm Aggregates

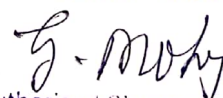
Total Wt. of Aggregates in gms= 5000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	195	3.9	3.9	96.1	95-100
10	2654	53.1	57.0	43.0	25-55
4.75	1722	34.4	91.4	8.6	0-10

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Job No.: CQCE/BBMP/PRN/W.No.17/2019-20

Date : 08.01.2020

TEST REPORT ON SOLID CONCRETE BLOCKS

Client : Executive Engineer, Project Division, RR Nagara Zone, BBMP, Bangalore.

Agency : Sri. Purushotham Raju N, Contractor, Bangalore.

Name of the Work : Construction of Market Building At JP Park in Ward No 17, BBMP, Bangalore.

Date of Testing : 08.01.2020

Size of Blocks : 400mm x 100mm x 200mm

Cross Sectional Area : 40000 mm²

Technical Reference : IS: 2185 (Part 1) - 2005

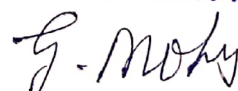
No. of Blocks Tested : 08

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm ²)	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	16.8	201.3	5.03	Minimum required Compressive Strength of Individual Units 5.00N/mm ²
2	Block 2	18.9	208.9	5.22	
3	Block 3	16.5	212.3	5.31	
4	Block 4	17.2	217.6	5.44	

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Job No.: CQCE/BBMP/PRN/W.No.17/2019-20

Date : 08.01.2020

TEST REPORT ON HALLOW CONCRETE BLOCKS

Client : Executive Engineer, Project Division, RR Nagara Zone, BBMP, Bangalore.
Agency : Sri. Purushotham Raju N, Contractor, Bangalore.
Name of the Work : Construction of Market Building At JP Park in Ward No 17, BBMP, Bangalore.
Date of Testing : 08.01.2020
Size of Blocks : 400mm x 200mm x 200mm
Cross Sectional Area : 80000 mm²
Technical Reference : IS: 2185 (Part 1) - 2005
No. of Blocks Tested : 04

Sl.No.	Block ID	Wt. in Kg	Failure load (N)	Compressive strength (N/mm ²)	Block Density in Kg/M ³	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	36.6	411.5	5.14	2287.50	Minimum required Compressive Strength of Individual Units 5.00N/mm ²
2	Block 2	34.2	419.6	5.25	2137.50	
3	Block 3	35.8	424.7	5.31	2237.50	
4	Block 4	32.6	430.2	5.38	2037.50	

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For CIVIL QUALITY CONSULTANTS & ENGINEERS

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Job No.: CQCE/BBMP/PRN/W.No.17/2019-20

Date: 10.01.2020

TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : Executive Engineer, Project Division, RR Nagara Zone, BBMP,
Agency : Sri. Purushotham Raju N, Contractor, Bangalore.
Name of Work : Construction of Market Building At JP Park in Ward No 17, BBMP, Bangalore.
Sample Identification : 8mm, 10mm, 12mm, 16mm Fe 500 TMT Bars
Technical Reference : IS 1786:2008, IS 1608:2005, IS 1599:1985 (Reaffirmed 2006)
Date of test : 10.01.2020

S.No	Brand	Nominal size (dia in mm)	Mass per metre (kg/metre)	TENSILE STRENGTH		
				0.20 % proof stress/ yield stress (N/mm ²)	Tensile strength (N/mm ²)	Elongation, percent on gauge length
1	Fe 500	8	0.38	545	552	13
2	Fe 500	10	0.62	556	564	13.5
3	Fe 500	12	0.89	569	575	14
4	Fe 500	16	1.58	575	583	14.5

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For CIVIL QUALITY CONSULTANTS & ENGINEERS

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Authorised signatory

B. K. Subramanian

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Job No.: CQCE/BBMP/PRN/W.No.17/2019-20

Date: 24.01.2020

TEST REPORT ON CONCRETE CUBES

Client : Executive Engineer, Project Division, RR Nagara Zone, BBMP, Bangalore.
Contractor : Sri. Purushotham Raju N, Contractor, Bangalore.
Name of the work : Construction of Market Building At JP Park in Ward No 17, BBMP, Bangalore.
Sample ID : Cement Concrete - 3rd Floor Beam
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm²
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M₃₀
Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	17.01.2020	24.01.2020	8.258	504.2	22.41
2	17.01.2020	24.01.2020	8.231	527.9	23.46
3	17.01.2020	24.01.2020	8.254	532.1	23.65

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S. K. Shankar

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Authorised Signatory



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Job No.: CQCE/BBMP/PRN/W.No.17/2019-20

Date: 14.02.2020

TEST REPORT ON CONCRETE CUBES

Client : Executive Engineer, Project Division, RR Nagara Zone, BBMP, Bangalore.
Contractor : Sri. Purushotham Raju N, Contractor, Bangalore.
Name of the work : Construction of Market Building At JP Park in Ward No 17, BBMP, Bangalore.
Sample ID : Cement Concrete - 3rd Floor Beam
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm²
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M₃₀
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	17.01.2020	14.02.2020	8.349	716.4	31.84
2	17.01.2020	14.02.2020	8.352	724.6	32.20
3	17.01.2020	14.02.2020	8.396	732.5	32.56

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Job No.: CQCE/BBMP/PRN/W.No.17/2019-20

Date: 24.01.2020

TEST REPORT ON CONCRETE CUBES

Client : Executive Engineer, Project Division, RR Nagara Zone, BBMP, Bangalore.
 Contractor : Sri. Purushotham Raju N, Contractor, Bangalore.
 Name of the work : Construction of Market Building At JP Park in Ward No 17, BBMP, Bangalore.

Sample ID : Cement Concrete - 3rd Floor Beam
 Size of cubes : 150mmx150mmx150mm
 Cross Sectional Area : 22500 mm²
 Technical Reference : IS: 516-1959 (Reaffirmed 2008)
 Grade of Concrete : M₃₀
 Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	17.01.2020	24.01.2020	8.211	506.2	22.50
2	17.01.2020	24.01.2020	8.239	524.1	23.29
3	17.01.2020	24.01.2020	8.247	530.0	23.56

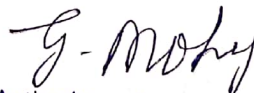
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K. K. Ananth Kumar

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 Authorised Signatory

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Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M₃₀
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	17.01.2020	14.02.2020	8.339	705.6	31.36
2	17.01.2020	14.02.2020	8.355	724.9	32.22
3	17.01.2020	14.02.2020	8.367	732.5	32.56

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Grade of Concrete : M₃₀
Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	17.01.2020	24.01.2020	8.236	482.9	21.46
2	17.01.2020	24.01.2020	8.259	506.3	22.50
3	17.01.2020	24.01.2020	8.247	522.5	23.22

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Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm²
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M₃₀
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	17.01.2020	14.02.2020	8.366	713.2	31.70
2	17.01.2020	14.02.2020	8.394	725.6	32.25
3	17.01.2020	14.02.2020	8.321	730.0	32.44

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K. K. Sankar

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Cross Sectional Area : 22500 mm²
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M₃₀
Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	17.01.2020	24.01.2020	8.258	507.9	22.57
2	17.01.2020	24.01.2020	8.269	531.5	23.62
3	17.01.2020	24.01.2020	8.217	526.8	23.41

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Job No.: CQCE/BBMP/PRN/W.No.17/2019-20

Date: 14.02.2020

TEST REPORT ON CONCRETE CUBES

Client : Executive Engineer, Project Division, RR Nagara Zone, BBMP, Bangalore.
Contractor : Sri. Purushotham Raju N, Contractor, Bangalore.
Name of the work : Construction of Market Building At JP Park in Ward No 17, BBMP, Bangalore.
Sample ID : Cement Concrete - 3rd Floor Beam
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm²
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M₃₀
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	17.01.2020	14.02.2020	8.372	720.3	32.01
2	17.01.2020	14.02.2020	8.369	731.5	32.51
3	17.01.2020	14.02.2020	8.384	749.9	33.33

Note:

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S. K. Purushotham

pd

For CIVIL QUALITY CONSULTANTS & ENGINEERS

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Job No.: CQCE/BBMP/PRN/W.No.17/2019-20

Date: 30.01.2020

TEST REPORT ON CONCRETE CUBES

Client : Executive Engineer, Project Division, RR Nagara Zone, BBMP, Bangalore.
 Contractor : Sri. Purushotham Raju N, Contractor, Bangalore.
 Name of the work : Construction of Market Building At JP Park in Ward No 17, BBMP, Bangalore.

Sample ID : Cement Concrete - 3rd Floor Staircase and Roof
 Size of cubes : 150mmx150mmx150mm
 Cross Sectional Area : 22500 mm²
 Technical Reference : IS: 516-1959 (Reaffirmed 2008)
 Grade of Concrete : M₃₀
 Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	23.01.2020	30.01.2020	8.219	501.2	22.28
2	23.01.2020	30.01.2020	8.252	525.6	23.36
3	23.01.2020	30.01.2020	8.239	532.4	23.66

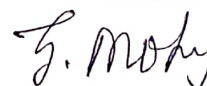
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For CIVIL QUALITY CONSULTANTS & ENGINEERS

B. K. Shankar

[Signature]


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Job No.: CQCE/BBMP/PRN/W.No.17/2019-20

Date: 20.02.2020

TEST REPORT ON CONCRETE CUBES

Client : Executive Engineer, Project Division, RR Nagara Zone, BBMP, Bangalore.
Contractor : Sri. Purushotham Raju N, Contractor, Bangalore.
Name of the work : Construction of Market Building At JP Park in Ward No 17, BBMP, Bangalore.
Sample ID : Cement Concrete - 3rd Floor Staircase and Roof
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm²
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M₃₀
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	23.01.2020	20.02.2020	8.329	750.0	33.33
2	23.01.2020	20.02.2020	8.351	719.9	32.00
3	23.01.2020	20.02.2020	8.345	742.3	32.99

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K. K. Anurag Kumar

For CIVIL QUALITY CONSULTANTS & ENGINEERS

G. Mohy
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Office & Laboratory : # 133, Bhuvaneshwarinagar, Dodda Basti Main Road, Bangalore - 560 056.
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Job No.: CQCE/BBMP/PRN/W.No.17/2019-20

Date: 30.01.2020

TEST REPORT ON CONCRETE CUBES

Client : Executive Engineer, Project Division, RR Nagara Zone, BBMP, Bangalore.
Contractor : Sri. Purushotham Raju N, Contractor, Bangalore.
Name of the work : Construction of Market Building At JP Park in Ward No 17, BBMP, Bangalore.
Sample ID : Cement Concrete - 3rd Floor Staircase and Roof
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm²
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M₃₀
Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	23.01.2020	30.01.2020	8.222	508.9	22.62
2	23.01.2020	30.01.2020	8.261	535.5	23.80
3	23.01.2020	30.01.2020	8.234	520.0	23.11

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For CIVIL QUALITY CONSULTANTS & ENGINEERS

Bk. Quikem

M

G. Mohy
Authorised Signatory

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Job No.: CQCE/BBMP/PRN/W.No.17/2019-20

Date: 20.02.2020

TEST REPORT ON CONCRETE CUBES

Client : Executive Engineer, Project Division, RR Nagara Zone, BBMP, Bangalore.
Contractor : Sri. Purushotham Raju N, Contractor, Bangalore.
Name of the work : Construction of Market Building At JP Park in Ward No 17, BBMP, Bangalore.
Sample ID : Cement Concrete - 3rd Floor Staircase and Roof
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm²
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M₃₀
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	23.01.2020	20.02.2020	8.319	716.6	31.85
2	23.01.2020	20.02.2020	8.365	728.9	32.40
3	23.01.2020	20.02.2020	8.344	734.3	32.64

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For CIVIL QUALITY CONSULTANTS & ENGINEERS

K. K. Ramesh Kumar

[Signature]

G. Mohy
Authorised Signatory

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Job No.: CQCE/BBMP/PRN/W.No.17/2019-20

Date: 30.01.2020

TEST REPORT ON CONCRETE CUBES

Client : Executive Engineer, Project Division, RR Nagara Zone, BBMP, Bangalore.
Contractor : Sri. Purushotham Raju N, Contractor, Bangalore.
Name of the work : Construction of Market Building At JP Park in Ward No 17, BBMP, Bangalore.
Sample ID :
Size of cubes : Cement Concrete - 3rd Floor Staircase and Roof
: 150mmx150mmx150mm
Cross Sectional Area : 22500 mm²
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M₃₀
Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	23.01.2020	30.01.2020	8.251	506.2	22.50
2	23.01.2020	30.01.2020	8.236	527.8	23.46
3	23.01.2020	30.01.2020	8.249	531.6	23.63

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For CIVIL QUALITY CONSULTANTS & ENGINEERS

B. K. Dhanalakshmi

Sub

G. Mohy
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Job No.: CQCE/BBMP/PRN/W.No.17/2019-20

Date: 20.02.2020

TEST REPORT ON CONCRETE CUBES

Client : Executive Engineer, Project Division, RR Nagara Zone, BBMP, Bangalore.
Contractor : Sri. Purushotham Raju N, Contractor, Bangalore.
Name of the work : Construction of Market Building At JP Park in Ward No 17, BBMP, Bangalore.
Sample ID : Cement Concrete - 3rd Floor Staircase and Roof
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm²
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M₃₀
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	23.01.2020	20.02.2020	8.339	718.9	31.95
2	23.01.2020	20.02.2020	8.354	742.3	32.99
3	23.01.2020	20.02.2020	8.321	750.0	33.33

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B. K. Anilkumar

[Signature]

For CIVIL QUALITY CONSULTANTS & ENGINEERS

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Job No.: CQCE/BBMP/PRN/W.No.17/2019-20

Date: 12.02.2020

TEST REPORT ON CONCRETE CUBES

Client : Executive Engineer, Project Division, RR Nagara Zone, BBMP, Bangalore.
Contractor : Sri. Purushotham Raju N, Contractor, Bangalore.
Name of the work : Construction of Market Building At JP Park in Ward No 17, BBMP, Bangalore.
Sample ID : Cement Concrete - Terrace Floor Beam
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm²
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M₃₀
Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	05.02.2020	12.02.2020	8.229	510.2	22.68
2	05.02.2020	12.02.2020	8.234	522.3	23.21
3	05.02.2020	12.02.2020	8.251	536.0	23.82

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K. K. Anilkumar

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Job No.: CQCE/BBMP/PRN/W.No.17/2019-20

Date: 04.03.2020

TEST REPORT ON CONCRETE CUBES

Client : Executive Engineer, Project Division, RR Nagara Zone, BBMP, Bangalore.
Contractor : Sri. Purushotham Raju N, Contractor, Bangalore.
Name of the work : Construction of Market Building At JP Park in Ward No 17, BBMP, Bangalore.
Sample ID : Cement Concrete - Terrace Floor Beam
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm²
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M₃₀
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	05.02.2020	04.03.2020	8.359	721.3	32.06
2	05.02.2020	04.03.2020	8.364	732.5	32.56
3	05.02.2020	04.03.2020	8.319	718.9	31.95

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For CIVIL QUALITY CONSULTANTS & ENGINEERS

B. K. Dhandaram

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Job No.: CQCE/BBMP/PRN/W.No.17/2019-20

Date: 20.02.2020

TEST REPORT ON CONCRETE CUBES

Client : Executive Engineer, Project Division, RR Nagara Zone, BBMP, Bangalore.
Contractor : Sri. Purushotham Raju N, Contractor, Bangalore.
Name of the work : Construction of Market Building At JP Park in Ward No 17, BBMP, Bangalore.
Sample ID : Cement Concrete - Terrace Floor Staircase and Roof
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm²
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M₃₀
Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	13.02.2020	20.02.2020	8.219	504.6	22.43
2	13.02.2020	20.02.2020	8.264	527.9	23.46
3	13.02.2020	20.02.2020	8.233	534.5 a	23.76

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B. K. Chandra Kumar

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For CIVIL QUALITY CONSULTANTS & ENGINEERS

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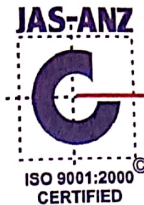


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Job No.: CQCE/BBMP/PRN/W.No.17/2019-20

Date: 12.03.2020

TEST REPORT ON CONCRETE CUBES

Client : Executive Engineer, Project Division, RR Nagara Zone, BBMP, Bangalore.
Contractor : Sri. Purushotham Raju N, Contractor, Bangalore.
Name of the work : Construction of Market Building At JP Park in Ward No 17, BBMP, Bangalore.
Sample ID : Cement Concrete - Terrace Floor Staircase and Roof
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm²
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M₃₀
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	13.02.2020	12.03.2020	8.312	742.3	32.99
2	13.02.2020	12.03.2020	8.350	715.6	31.80
3	13.02.2020	12.03.2020	8.369	731.3	32.50

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S.K. Ramesh Kumar

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For CIVIL QUALITY CONSULTANTS & ENGINEERS

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Job No.: CQCE/BBMP/PRN/W.No.17/2019-20

Date : 10.01.2020

TEST REPORT ON VITRIFIED TILES

*Client : Executive Engineer, Project Division, RR Nagara Zone, BBMP, Bangalore.
*Contractor : Sri. Purushotham Raju N, Contractor, Bangalore.
*Name of the work : Construction of Market Building At JP Park in Ward No 17, BBMP, Bangalore.

Technical Reference : IS: 13630 - 2006 - Method of Testing Vitrified Tiles
IS 15622 - 2006 - Specification of Ceramic Tiles

No. of Samples Tested : 05 (Five)
Date of Testing : 10.01.2020

I. MODULUS OF RUPTURE

Sl. No.	Measured Dimension (mm)	Modulus of Rupture (N/mm ²)	Average (N/mm ²)	Requirement as per IS: 15622 (Reaffirmed 2006)
1	600 x 600 x 9.6	47.6	47.10	Average 47, individual minimum 44 N/mm ²
2	600 x 600 x 9.3	46.5		
3	600 x 600 x 9.5	47.4		
4	600 x 600 x 9.9	47.1		
5	600 x 600 x 9.4	46.9		

II. CHEMICAL RESISTANCE

Sl. No.	Measured Dimension (mm)	Visual observations	Requirement as per IS: 15622 (Reaffirmed 2006)
1	600 x 600 x 9.6	No visible effect	Class AA, min (13630 Part 8)
2	600 x 600 x 9.3	No visible effect	
3	600 x 600 x 9.5	No visible effect	
4	600 x 600 x 9.9	No visible effect	
5	600 x 600 x 9.4	No visible effect	

B. K. Anubhava

For

For CIVIL QUALITY CONSULTANTS & ENGINEERS

G. Mohy
Authorised Signatory



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III. STAIN RESISTANCE

Sl. No.	Measured Dimension (mm)	Visual observations	Requirement as per IS: 15622 (Reaffirmed 2006)
1	600 x 600 x 9.6	Stain Removed by Water	Class 1, min (13630 Part 8)
2	600 x 600 x 9.3	Stain Removed by Water	
3	600 x 600 x 9.5	Stain Removed by Water	
4	600 x 600 x 9.9	Stain Removed by Water	
5	600 x 600 x 9.4	Stain Removed by Water	

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B. K. Gaudin

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For CIVIL QUALITY CONSULTANTS & ENGINEERS

G. Mody
Authorised Signatory